



Lancaster Laboratories
Environmental

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Analysis Report

Partial Report

Sample Description:

Ex. 6 - Personal Privacy

Wolverine World Wide

Tetra Tech, Inc.
ELLE Sample #:
ELLE Group #:
Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 18:09

SDG#: **Ex. 6 - Personal Privacy**

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. Organics		EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18005007	01/16/2018 23:14	Marissa C Drexinger	1

Reference ID:
1891712220118102616

Environmental Analysis Request/Chain of Custody



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Acct. # 10459 Group # 1891712 Sample # 9388817-45

COC # 540829

Client Information				Matrix				Analysis Requested										For Lab Use Only									
Client: MSG/Tetra Tech			Acct. #:	<input type="checkbox"/>	Tissue <input type="checkbox"/>	<input type="checkbox"/>	Ground <input checked="" type="checkbox"/>	<input type="checkbox"/>	Surface <input type="checkbox"/>	Preservation Codes										FSC:	SCR#:						
Project Name/#: Wolverine World Wide			PWSID #:	<input type="checkbox"/>	Sediment <input type="checkbox"/>	Potable <input checked="" type="checkbox"/>	NPDES <input type="checkbox"/>	Other:	Total # of Containers											Preservation Codes							
Project Manager: BRENT RITCHIE			P.O. #: 217808	<input type="checkbox"/>	Soil <input type="checkbox"/>	Water ↓														H=HCl T=Thiosulfate							
Sampler: BLR / C. Remar			Quote #:	<input type="checkbox"/>																N=HNO ₃ B=NaOH							
State where samples were collected: MI		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/>																S=S ₂ O ₄ O=Other							
Sample Identification		Collected		Grab	Composite	Soil	Sediment	Potable	NPDES	Other:	Total # of Containers											Remarks					
		Date	Time																								
Ex. 6 - Personal Privacy		12/17	0835	X							1	X															
			0838	X								2	X														
			0854	X								2	X														
			0946	X								1	X														
			0950	X								2	X														
			0955	X								6	X														MS/MSD
			1054	X								1	X														
			1057	X								2	X														
	1102	X								2	X																
Turnaround Time (TAT) Requested (please circle) Standard _____ (Rush) <small>(Rush TAT is subject to laboratory approval and surcharge.)</small> Date results are needed: 5-DAY E-mail address: britchie@mamichsmithgroup.com				Relinquished by		Date	Time	Received by		Date	Time																
				Relinquished by		Date	Time	Received by		Date	Time																
				Relinquished by		Date	Time	Received by		Date	Time																
				Relinquished by		Date	Time	Received by		Date	Time																
				Relinquished by		Date	Time	Received by		Date	Time																
Data Package Options (circle if required) Type I (EPA Level 3 Equivalent/non-CLP) Type III (Reduced non-CLP) NYSDEC Category A or B				Type VI (Raw Data Only) <u>Level IV</u> NJ DKQP TX TRRP-13 MA MCP CT RCP				EDD Required? Yes <input checked="" type="radio"/> No <input type="radio"/> If yes, format: _____ Site-Specific QC (MS/MSD/Dup)? Yes <input checked="" type="radio"/> No <input type="radio"/> <small>(If yes, indicate QC sample and submit triplicate sample volume.)</small>				Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____ Temperature upon receipt 0.9/1.0 °C															

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0216

Environmental Analysis Request/Chain of Custody



**Lancaster Laboratories
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Acct. # 10459 Group # 1891712 Sample # 9388817

COC # 540830

Client Information						Matrix		Analysis Requested										For Lab Use Only			
Client: MSG/Tetra Tech				Acct. #:		<input type="checkbox"/> Tissue <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Other:		Preservation Codes										FSC: _____			
Project Name/ #: Wolverine World Wide				PWSID #:														SCR#: _____			
Project Manager: BRENT RITCHIE				P.O. #: 217808														Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other			
Sampler: BLR/C. Renner				Quote #:		Total # of Containers												Remarks			
State where samples were collected: MI				For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																	
Sample Identification				Collected		Grab	Composite	Soil	Water	Other:	PFAS										
Date	Time																				
12/27/17	1156	X									-	X									
	1202	X									2	X									
	1207	X									2	X									
	1207	X									2	X									
	1250	X									-	X									
	1253	X									2	X									
	1258	X									2	X									
	1438	X									-	X									
	1440	X									2	X									
✓	1445	X									2	X									

Ex. 6 - Personal Privacy

Turnaround Time (TAT) Requested (please circle)			Relinquished by	Date	Time	Received by	Date	Time
Standard <u>Rush</u>			[Signature]	12-29-17	200	[Signature]		
(Rush TAT is subject to laboratory approval and surcharge.)			Relinquished by	Date	Time	Received by	Date	Time
Date results are needed: <u>5-day</u>			Relinquished by	Date	Time	Received by	Date	Time
E-mail address: <u>britchie@mannixsmithgroup.com</u>			Relinquished by	Date	Time	Received by	Date	Time
Data Package Options (circle if required)			Relinquished by	Date	Time	Received by	Date	Time
Type I (EPA Level 3 Equivalent/non-CLP)	Type VI (Raw Data Only) <u>Level IV</u>	NJ DKQP TX TRRP-13				[Signature]	12/29/17	1000
Type III (Reduced non-CLP)	MA MCP CT RCP		EDD Required? <u>Yes</u> No			Relinquished by Commercial Carrier:		
			If yes, format: _____			UPS _____ FedEx <u>X</u> Other _____		
NYSDEC Category A or B			Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No			Temperature upon receipt <u>1.3</u> °C		
			(If yes, indicate QC sample and submit triplicate sample volume.)					

Environmental Analysis Request/Chain of Custody



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Acct. # 10459 Group # 1891712 Sample # 9388817-45

COC # 540817

[illegible]

Environmental Analysis Request/Chain of Custody



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Acct. # 10459 Group # 1891712 Sample # 9388817-45

COC # 540816

[illegible]



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Sample Administration Receipt Documentation Log

Doc Log ID: 205017



Group Number(s): 1891712

Client: MSG/TETRA TECH

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>12/29/2017 10:00</u>
Number of Packages:	<u>4</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>MI</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Wendy Wakeley (1669) at 11:06 on 12/29/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.6	DT	Wet	Y	Bagged	N
2	DT146	1.3	DT	Wet	Y	Bagged	N
3	DT146	0.4	DT	Wet	Y	Bagged	N
4	DT146	1.0	DT	Wet	Y	Bagged	N



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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.